

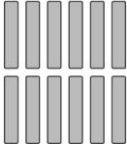
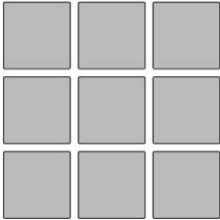
Pre-Algebra In-Class Review Assignment (Out of 35)

Name: _____ Period: _____ Due Date: Oct. 14 .

Modelling Polynomials (Value 8)

1. $-2b^2 - b + 10$
Name the coefficients _____, variable _____, degree _____, and constant term _____ of the polynomial.
2. Identify each polynomial as a monomial, binomial, or trinomial.
a) $19t$ b) $g - 4g^2 + 5$ c) $-1 + xy + y^2$ d) $4 - 11w$
3. Use algebra tiles to model each polynomial. Sketch the tiles.
a) $-5 + y^2$ b) $-3a^2 - 2a + 1$

Like Terms and Unlike Terms (Value 4)

4. Combine like terms.
a) $4 + x + 1 + 5x + 1 =$ b) $2x^2 + 8 - 11 - 4x^2 + 5x^2 =$
5. Write a polynomial to represent the perimeter of each rectangle.
a)  b) 

Adding and Subtracting Polynomials (Value 4)

6. Add these polynomials. Use algebra tiles if it helps.
a) $(x - 5) + (2x + 2)$ b) $(y^2 + 6y) + (-7y^2 + 2y)$
7. Subtract.
a) $(mn - 5m - 7) - (-6n + 2m + 1)$ b) $(2a + 3b - 3a^2 + b^2) - (-a^2 + 8b^2 + 3a - b)$

Multiplying and Dividing a Polynomial by a Constant or Monomial (Value 19)

8. Multiply.
a) $2(3b)$ b) $-2(6h)$ c) $-2(-y^2)$
d) $4(3a + 2)$ e) $(d^2 + 2d)(-3)$ f) $-3(-5m^2 + 6m + 7)$
g) $v(3v + 1)$ h) $(-m)(7k - 3)$ i) $(-r)(-1 - 10r)$
9. Divide.
a) $12d \div 4$ b) $-20d \div 5$ c) $-10q \div -5$
d) $(16v + 16) \div (8)$ e) $(25k^2 - 15k) \div (5)$ f) $(6x + 3) \div 3$
g) $(14w - 7) \div -7$ h) $(9xy - 6x) \div -3x$

10. Write the multiplication sentence modelled by each set of algebra tiles.

a)



b)

